

Claims

1. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
 - i) contacting a test compound with a GPR85 polypeptide,
 - ii) detect binding of said test compound to said GPR85 polypeptide.
2. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
 - i) determining the activity of a GPR85 polypeptide at a certain concentration of a test compound or in the absence of said test compound,
 - ii) determining the activity of said polypeptide at a different concentration of said test compound.
3. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
 - i) determining the activity of a GPR85 polypeptide at a certain concentration of a test compound,
 - ii) determining the activity of a GPR85 polypeptide at the presence of a compound known to be a regulator of a GPR85 polypeptide.
4. The method of any of claims 1 to 3, wherein the step of contacting is in or at the surface of a cell.
5. The method of any of claims 1 to 3, wherein the cell is in vitro.

6. The method of any of claims 1 to 3, wherein the step of contacting is in a cell-free system.
7. The method of any of claims 1 to 3, wherein the polypeptide is coupled to a detectable label.
8. The method of any of claims 1 to 3, wherein the compound is coupled to a detectable label.
- 5 9. The method of any of claims 1 to 3, wherein the test compound displaces a ligand which is first bound to the polypeptide.
10. The method of any of claims 1 to 3, wherein the polypeptide is attached to a solid support.
11. The method of any of claims 1 to 3, wherein the compound is attached to a solid support.
- 10 12. A method of screening for therapeutic agents useful in the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
 - i) contacting a test compound with a GPR85 polynucleotide,
 - 15 ii) detect binding of said test compound to said GPR85 polynucleotide.
13. The method of claim 12 wherein the nucleic acid molecule is RNA.
14. The method of claim 12 wherein the contacting step is in or at the surface of a cell.
15. The method of claim 12 wherein the contacting step is in a cell-free system.
16. The method of claim 12 wherein polynucleotide is coupled to a detectable label.
- 20 17. The method of claim 12 wherein the test compound is coupled to a detectable label.
18. A method of diagnosing a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
 - 25 i) determining the amount of a GPR85 polynucleotide in a sample taken from said mammal,

- ii) determining the amount of GPR85 polynucleotide in healthy and/or diseased mammals.
19. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising a therapeutic agent which binds to a GPR85 polypeptide.
20. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising a therapeutic agent which regulates the activity of a GPR85 polypeptide.
21. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising a therapeutic agent which regulates the activity of a GPR85 polypeptide, wherein said therapeutic agent is
- i) a small molecule,
- ii) an RNA molecule,
- iii) an antisense oligonucleotide,
- iv) a polypeptide,
- v) an antibody, or
- vi) a ribozyme.
22. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising a GPR85 polynucleotide.

23. A pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising a GPR85 polypeptide.
24. Use of regulators of a GPR85 for the preparation of a pharmaceutical composition for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal.
25. Method for the preparation of a pharmaceutical composition useful for the treatment of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal comprising the steps of
- i) identifying a regulator of GPR85,
 - ii) determining whether said regulator ameliorates the symptoms of a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders in a mammal; and
 - iii) combining of said regulator with an acceptable pharmaceutical carrier.
26. Use of a regulator of GPR85 for the regulation of GPR85 activity in a mammal having a disease comprised in a group of diseases consisting of cardiovascular disorders, hematological disorders, inflammatory diseases, metabolic diseases, neurological disorders, urological disorders, respiratory diseases, cancer disorders and reproduction disorders.